

Please type a sign (+) inside this box ! +

PTO/SB/05 (08-00)

Approved for use through 10/31/2002. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. PF512P1

First Inventor Shi et al.

Title 18 Human Secreted Proteins

Express Mail Label No.

## APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

- ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)
- ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
- ☒ Specification [Total Pages 419]  
(preferred arrangement set forth below)  
- Descriptive title of the Invention  
- Cross Reference to Related Applications  
- Statement Regarding Fed sponsored R & D  
- Reference to sequence listing, a table,  
or a computer program listing appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claim(s)  
- Abstract of the Disclosure
- ☐ Drawing(s) (35 U.S.C. 113) [Total Sheets ]
- ☒ Unexecuted Oath or Declaration [Total Pages 2]  
a. ☐ Newly executed (original or copy)  
b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 17 completed)  
i. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in  
the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- ☐ Application Data Sheet. See 37 CFR 1.76.

- ☐ CD-ROM or CD-R in duplicate, large table or Computer  
Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)  
a. ☒ Computer Readable Form (CRF)  
b. Specification Sequence Listing on:  
i. ☐ CD-ROM or CD-R (2 copies); or  
ii. ☒ paper  
c. Request under 37 CFR 1.821(e)

## ACCOMPANYING APPLICATION PARTS

- ☐ Assignment Papers (cover sheet and document(s))
- ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
- ☐ English Translation Document (if applicable)
- ☐ Information Disclosure Statement/ Form PTO/SB/08  
☐ Copies of Citations
- ☐ Preliminary Amendment
- ☒ Return Receipt Postcard (MPEP 503)  
(should be specifically itemized)
- ☐ Certified copy of Priority Document(s)  
(if foreign priority is claimed)
- ☐ Other:

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☒ Continuation-in-Part (CIP) of prior application No: PCT/US00/22350, filed August 15, 2000  
which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/148,759 filed August 16, 1999.  
Prior application information: Examiner: Group/Art Unit:  
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the  
accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted  
application parts.

## 18. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label 22195 or ☐ Correspondence address below

NAME

ADDRESS

CITY

STATE

ZIP CODE

COUNTRY

TELEPHONE

FAX


NAME (Print/Type) Kenley K. Hoover

Registration No. (Attorney/Agent) 40,302

SIGNATURE

Date January 25, 2001

r Statement: this form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete  
ould be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:  
ommissioner for Patents, Box Patent Application, Washington, DC 20231.

FEE TRANSMITTAL for FY 2001		Comp Known																																																																																																																																																																																																							
<i>Patent fees are subject to annual revision.</i>		Application Number	Unassigned																																																																																																																																																																																																						
		Filing Date	January 24, 2001																																																																																																																																																																																																						
		First Named Inventor	Shi et al.																																																																																																																																																																																																						
		Examiner Name																																																																																																																																																																																																							
		Group Art Unit																																																																																																																																																																																																							
Total amount of payment (\$) <b>844.00</b>		Attorney Docket Number	PF512P1																																																																																																																																																																																																						
METHOD OF PAYMENT (CHECK ONE)		FEE CALCULATION (CONTINUED)																																																																																																																																																																																																							
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to: Deposit Account Number <b>08-3425</b> Deposit Account Name <b>Human Genome Sciences, Inc.</b>  <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17  <input type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27  <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input checked="" type="checkbox"/> Other* *Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 08-3425		3. ADDITIONAL FEES <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>112</td><td>920</td><td>112</td><td>920</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840</td><td>113</td><td>1,840</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>390</td><td>216</td><td>195</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>890</td><td>217</td><td>445</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,390</td><td>218</td><td>695</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,890</td><td>228</td><td>945</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>310</td><td>219</td><td>155</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>310</td><td>220</td><td>155</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>270</td><td>221</td><td>135</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive -unavoidable</td><td></td></tr> <tr><td>141</td><td>1,240</td><td>241</td><td>620</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,240</td><td>242</td><td>620</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>440</td><td>243</td><td>220</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>600</td><td>244</td><td>300</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Statement</td><td></td></tr> <tr><td>581</td><td>40</td><td>481</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>710</td><td>246</td><td>355</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>710</td><td>249</td><td>355</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>179</td><td>710</td><td>279</td><td>355</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>190</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="5">Other fee (specify):</td><td></td></tr> <tr><td colspan="5">Other fee (specify):</td><td></td></tr> <tr><td colspan="5">*Reduced by Basic Filing Fee Paid</td><td></td></tr> <tr><td colspan="5" style="text-align: right;"><b>Subtotal (3)</b></td><td style="text-align: center; vertical-align: bottom;"><b>\$</b></td></tr> </tbody> </table>		Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late provisional filing fee or cover sheet		127	50	227	25	Surcharge - late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination		112	920	112	920	Requesting publication of SIR prior to Examiner action		113	1,840	113	1,840	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	390	216	195	Extension for reply within second month		117	890	217	445	Extension for reply within third month		118	1,390	218	695	Extension for reply within fourth month		128	1,890	228	945	Extension for reply within fifth month		119	310	219	155	Notice of Appeal		120	310	220	155	Filing a brief in support of an appeal		121	270	221	135	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive -unavoidable		141	1,240	241	620	Petition to revive - unintentional		142	1,240	242	620	Utility issue fee (or reissue)		143	440	243	220	Design issue fee		144	600	244	300	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	240	126	240	Submission of Information Disclosure Statement		581	40	481	40	Recording each patent assignment per property (times number of properties)		146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))		149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))		179	710	279	355	Request for Continued Examination (RCE)		169	190	169	900	Request for expedited examination of a design application		Other fee (specify):						Other fee (specify):						*Reduced by Basic Filing Fee Paid						<b>Subtotal (3)</b>					<b>\$</b>
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																				
105	130	205	65	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																																					
127	50	227	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																																					
139	130	139	130	Non-English specification																																																																																																																																																																																																					
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination																																																																																																																																																																																																					
112	920	112	920	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																																					
113	1,840	113	1,840	Requesting publication of SIR after Examiner action																																																																																																																																																																																																					
115	110	215	55	Extension for reply within first month																																																																																																																																																																																																					
116	390	216	195	Extension for reply within second month																																																																																																																																																																																																					
117	890	217	445	Extension for reply within third month																																																																																																																																																																																																					
118	1,390	218	695	Extension for reply within fourth month																																																																																																																																																																																																					
128	1,890	228	945	Extension for reply within fifth month																																																																																																																																																																																																					
119	310	219	155	Notice of Appeal																																																																																																																																																																																																					
120	310	220	155	Filing a brief in support of an appeal																																																																																																																																																																																																					
121	270	221	135	Request for oral hearing																																																																																																																																																																																																					
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																					
140	110	240	55	Petition to revive -unavoidable																																																																																																																																																																																																					
141	1,240	241	620	Petition to revive - unintentional																																																																																																																																																																																																					
142	1,240	242	620	Utility issue fee (or reissue)																																																																																																																																																																																																					
143	440	243	220	Design issue fee																																																																																																																																																																																																					
144	600	244	300	Plant issue fee																																																																																																																																																																																																					
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																																																					
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																																																					
126	240	126	240	Submission of Information Disclosure Statement																																																																																																																																																																																																					
581	40	481	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																																																					
146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																																					
149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																																					
179	710	279	355	Request for Continued Examination (RCE)																																																																																																																																																																																																					
169	190	169	900	Request for expedited examination of a design application																																																																																																																																																																																																					
Other fee (specify):																																																																																																																																																																																																									
Other fee (specify):																																																																																																																																																																																																									
*Reduced by Basic Filing Fee Paid																																																																																																																																																																																																									
<b>Subtotal (3)</b>					<b>\$</b>																																																																																																																																																																																																				
2. BASIC FILING FEE <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>710</td><td>201</td><td>355</td><td>Utility filing fee</td><td>\$710.00</td></tr> <tr><td>106</td><td>320</td><td>206</td><td>160</td><td>Design filing fee</td><td></td></tr> <tr><td>107</td><td>490</td><td>207</td><td>245</td><td>Plant filing fee</td><td></td></tr> <tr><td>108</td><td>710</td><td>208</td><td>355</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr> <tr><td colspan="5"><b>Subtotal (1)</b></td><td><b>\$710.00</b></td></tr> </tbody> </table> EXTRA CLAIM FEES <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Total claims</th> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>23</td><td>- 20**</td><td>3</td><td>\$54.00</td></tr> <tr><td>Indep. claims</td><td>4</td><td>- 3**</td><td>\$80.00</td></tr> <tr><td>Multiple</td><td></td><td></td><td>\$</td></tr> <tr><td>Dependent</td><td></td><td></td><td></td></tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td></tr> <tr><td>102</td><td>80</td><td>202</td><td>40</td><td>Independent claims in excess of 3</td></tr> <tr><td>104</td><td>270</td><td>204</td><td>135</td><td>Multiple dependent claim</td></tr> <tr><td>108</td><td>80</td><td>209</td><td>40</td><td>**Reissue independent claims over original patent</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>**Reissue claims in excess of 20 and over original patent</td></tr> <tr><td colspan="5"><b>Subtotal (2)</b></td></tr> </tbody> </table>		Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid	101	710	201	355	Utility filing fee	\$710.00	106	320	206	160	Design filing fee		107	490	207	245	Plant filing fee		108	710	208	355	Reissue filing fee		114	150	214	75	Provisional filing fee		<b>Subtotal (1)</b>					<b>\$710.00</b>	Total claims	Extra	Fee from below	Fee Paid	23	- 20**	3	\$54.00	Indep. claims	4	- 3**	\$80.00	Multiple			\$	Dependent				Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	103	18	203	9	Claims in excess of 20	102	80	202	40	Independent claims in excess of 3	104	270	204	135	Multiple dependent claim	108	80	209	40	**Reissue independent claims over original patent	110	18	210	9	**Reissue claims in excess of 20 and over original patent	<b>Subtotal (2)</b>					<b>(\$844.00)</b>																																																																																																						
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																				
101	710	201	355	Utility filing fee	\$710.00																																																																																																																																																																																																				
106	320	206	160	Design filing fee																																																																																																																																																																																																					
107	490	207	245	Plant filing fee																																																																																																																																																																																																					
108	710	208	355	Reissue filing fee																																																																																																																																																																																																					
114	150	214	75	Provisional filing fee																																																																																																																																																																																																					
<b>Subtotal (1)</b>					<b>\$710.00</b>																																																																																																																																																																																																				
Total claims	Extra	Fee from below	Fee Paid																																																																																																																																																																																																						
23	- 20**	3	\$54.00																																																																																																																																																																																																						
Indep. claims	4	- 3**	\$80.00																																																																																																																																																																																																						
Multiple			\$																																																																																																																																																																																																						
Dependent																																																																																																																																																																																																									
Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description																																																																																																																																																																																																					
103	18	203	9	Claims in excess of 20																																																																																																																																																																																																					
102	80	202	40	Independent claims in excess of 3																																																																																																																																																																																																					
104	270	204	135	Multiple dependent claim																																																																																																																																																																																																					
108	80	209	40	**Reissue independent claims over original patent																																																																																																																																																																																																					
110	18	210	9	**Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																					
<b>Subtotal (2)</b>																																																																																																																																																																																																									
Submitted By		Complete (if applicable)																																																																																																																																																																																																							
Name (Print/Type) <b>Kenley K. Hooyer</b>		Registration No.: <b>40,302</b>																																																																																																																																																																																																							
Signature: 		Telephone	<b>301-309-8504</b>																																																																																																																																																																																																						
		Date	<b>January 25, 2001</b>																																																																																																																																																																																																						

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.